

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J. F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02208

RCRA RECORDS CENTER
FACILITY POLLEWhitney-Mun SH
I.D. NO.C. TD99067 ZORI
FILE LOC. TR-175
OTHER POMS # 2896

December 23, 1986

Mr. John G. Whitehead, Plant Manager United Technologies Pratt and Whitney 400 Main Street East Hartford, CT 06108

Re: Comments on Burn-Zol Hazardous Waste Incinerator Closure Plan Located at the Main Street East Hartford Facility.

Dear Mr. Whitehead:

Attached please find comments identifying specific deficiencies in the closure plan submitted to the Department of Environmental Protection July 16, 1986.

Please note that these comments reflect the requirements of 40 CFR 265 Subpart G as revised (effective 10/29/86).

If you have any questions regarding these comments please contact us.

Sincerely,

Art Wing, Environmental Engineer

Waste Management Division

(617) 223-1910

Standard Constant Control of Congression Sanitary Engineer Mazardous Materials Management Unit

Connecticut Department of Environmental Protection

(203) 566-2264

cc: K. Vidmar

GENERAL COMMENTS

The partial closure plan deficiencies occur in three areas. The maximum waste inventory does not take into consideration residues such as ash, scrubber waters, and scrubber sludges from the incineration equipment. Removal and clean-up procedures do not describe how these residues and the refractories will be removed, and how the outside of the incineration equipment, the cleaning equipment, the building, concrete pad, or surrounding structures and soils will be cleaned.

The portions of the closure costs provided in the plan are adequate. However, no closure costs have been estimated for testing or decontamination of the outside of the incineration equipment, the concrete pad and surrounding structures or the inside of the building, the cleaning equipment, and the surrounding soils, and no explanation has been given for not including these activities in the costs. The closure cost estimate must be based on third party costs.

SPECIFIC COMMENTS

A-1 <u>Closure Plan Requirements</u>: 265.110 through 265.115, 265.351

Revise the partial closure plan to incorporate detailed procedures to sample, remove and/or decontaminate the outside of the incineration equipment, the concrete pad and surrounding structures or the inside of the building, the cleaning equipment, and the surrounding soils.

Alternately an explanation may be given for not performing some of these activities. The partial closure plan should be revised to be consistent with deficiency comments A-lb through A-lg.

A-1b Maximum Waste Inventory: 265.112(b)(3)

Include in the maximum inventory estimates the maximum amount of hazardous waste residue, such as ash, scrubber waters, and scrubber sludges from the incinerator, waste heat boiler, and air pollution control equipment.

A-1c Closure of Hazardous Waste Units: 265.112(b)(4), 265.112(b)(5), 265.114

Include the following information regarding decontamination:

- (1) A list of potentially contaminated areas in the area surrounding the incinerator;
- (2) Methods for sampling and testing surrounding soils;
- (3) Procedures for cleaning (outside and inside), removing, or disposing of contaminated equipment, structures, and soils
- A-1c(5)(a) Removal of all Hazardous Wastes and Waste Residue: 265.351

Describe how all waste residues such as ash, scrubber waters, and scrubber sludges will be

removed from the incinerator, waste heat boiler, and associated air pollution control equipment.

A-1c(5)9b) <u>Decontamination/Disposal Procedures For</u>
<u>Incinerators and Associated Equipment. Adjacent</u>
<u>Surface and Subsoils. and Clean-up Equipment:</u>
265.351, 265.114

Discuss the procedures for decontaminating the incinerator and associated equipment (outside and inside), including ash collection and emissions control equipment, clean-up equipment, and the surrounding area.

Unless a demonstration can be made that they are not hazardous wastes, all residues must be managed as hazardous wastes. Describe how the residues will be properly treated or disposed.

Specify the procedures for determining if any surfaces or subsoils within or adjacent to the incinerator area are contaminated, and provide the procedures for removal, treatment or disposal of these contaminated materials.

A-lg <u>Certification of Closure</u>: 265.115

Specify that, when closure is completed, certification will be submitted by both the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan. The engineer certification should include records of inspection, sampling and analysis

results, and all observations made by the engineer to verify that the facility has been closed in accordance with the approved closure plan.

A-3 Closure Cost Estimate: 265.142

Include in the closure cost estimate cost of testing and decontamination of:

- (1) any incinerator equipment surfaces;
- (2) the concrete pad and surrounding structures or the interior of the building; and/or
- (3) those soils in the surrounding area that may have been contaminated by drips, leaks, or spills during the testing of the incinerator.

The costs must be based on third party closure costs. Substantiate the costs in the closure cost estimate as being equivalent to third party costs or revise the closure costs estimate to account for third party closure.

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments
A-1	Closure plan requirements	<u> </u>	N		Pages 4-10 See comment A-1
A-1a(1)	Closure performance standard	<u> </u>	<u> </u>		Pages 1, 5-7
A-1a(2)	Partial closure activities	<u> </u>	<u> </u>		Pages 4-8, See comment A-1c(5)
A-1b	Maximum waste inventory	<u> </u>	<u> </u>	****	Page 5, See comment A-1b
A-1c	Closure of hazardous waste units	<u> </u>	<u> </u>		Page 6, See comment A-1c
A-1c(1)	Closure of containers			<u>NA</u>	
A-1c(1)(a)	Removal of waste inventory			NA	
A-1c(1)(b)	Clean-up of spills or residues and decontamination procedures for liner or base and equipment	****		NA	
A-1c(1)(c)	Testing and analysis to demon- strate success of decontamination	1		NA	
A-1c(2)	Closure of tanks	-		<u>NA</u>	
A-1c(2)(a)	Removal of tank contents			<u>NA</u>	
A-1c(2)(b)	Decontamination/disposal procedures for tanks, appurte-nances and adjacent soils/subsoils and clean-up equipment			<u>NA</u>	
A-1c(2)(c)	Testing and analysis to demon- strate success of decontamination	1		NA	
A-1c(3)	Closure of waste piles			<u>NA</u>	
A-1c(3)(a)	Removal of waste pile contents, liner (if any), and other contaminated materials			NA	

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments
A-1c(3)(b)	Decontamination/disposal procedures for contaminated structures and equipment			NA	
A-1c(3)(c)	Testing and analysis to dem- onstrate success of decontam- ination of equipment and removal of contaminated soils			NA	(
A-1c(4)	Closure of surface impoundments			NA	
A-1c(4)(a)	Removal of impoundment contents, liner (if any), and other contaminated materials			NA	<u> </u>
A-1c(4)(b)	Decontamination/disposal proce- dures for contaminated equipment			NA	
A-lc(4)(c)	Testing and analysis to demon- strate success of decontamination equipment) ————		NA	
A-1c(5)	Closure of incinerators	<u> </u>	<u>N</u>		Page 5-6, See comments A-1c(5)(a), A-1c(5)(b)
A-1c(5)(a)	Removal of all hazardous waste and waste residues	<u> Y</u>	N		Page 5, See comment A-1c(5)(a)
A-1c(5)(b)	Decontamination/disposal procedures for incinerators and associated equipment, adjacent surface and subsoils, and clean-up equipment	<u> </u>	N		Pages 5-6, See comment A-1c(5)(b)

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments	
A-1c(5)(c)	Testing and analysis to demon- strate success of decontamination	<u> Y</u>	<u> </u>	-	Pages 6-7	
A-1c(6)	Closure of thermal treatment units			NA		
A-1c(6)(a)	Removal of all hazardous wastes and waste residue			NA		
A-1c(6)(b)	Decontamination/disposal procedures for thermal treatment units and associated equipment, adjacent surface and subsoils, and clean-up equipment			NA		
A-1c(6)(c)	Testing and analysis to demon- strating successs of decontamination		and the same	NA_		
A-1c(7)	Closure of chemical, physical, and biological treatment units			NA		
A-1c(7)(a)	Removal of all hazardous wastes and waste residues	-		NA		
A-1c(7)(b)	Decontamination/disposal procedures for chemical, physical and biological treatment units and associated equipment, adjacent surface and subsoils, and clean-up equipment			<u>NA</u>		
A-1c(7)(c)	Testing and analysis to demon- strate success on decontamination	-		<u>NA</u>		
A-1c(8)	Closure of land treatment units		-118	NA		
A-1c(8)(a)	Discontinuation of waste application			NA		

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments
A-1c(8)(b)	Removal of contaminated soil			NA	
A-1c(8)(c)	Continuation of treatment			<u>NA</u>	
A-1c(8)(c)(1)	Maintenance of run-on control			NA	
A-1c(8)(c)(2)	Maintenance of run-off control			NA_	
A-1c(8)(c)(3)	Control of particulate releases			NA	
A-1c(8)(c)(4)	Compliance of food-chain crop restrictions			NA	
A-1c(8)(c)(5)	Unsaturated zone monitoring			NA_	
A-1c(8)(d)	Land treatment unit cover			NA	
A-1c(8)(e)	Equipment decontamination or disposal			NA	
A-1d	Closure of disposal units			<u>NA</u>	
A-1d(1)	Disposal impoundments			<u>NA</u>	
A-1d(1)(a)	Elimination of liquids			<u>NA</u>	
A-1d(1)(b)	Waste stabilization			NA	
A-1d(2)	Cover design			<u>NA</u>	
A-1d(3)	Minimization of liquid migra- tion			NA_	
A-1d(4)	Maintenance needs		<u> </u>	NA	
A-1d(5)	Drainage and erosion			<u>NA</u>	
A-1d(6)	Settlement, subsidence, and displacement			NA	

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments
A-1d(7)	Cover permeability			NA	
A-1d(8)	Freeze/thaw effects			<u>NA</u>	
A-1d(9)	Disposal or decontamination of equipment			NA	
A-le	Schedule for closure	<u> </u>	<u> </u>		Page 8
A-1f	Extensions for closure time	<u> </u>	<u> </u>		
A-1g	Certification of closure	<u> </u>	<u> </u>		Page 12, See comment A-1g
A-2	Post-closure plan requirements			<u>NA</u>	
A-2a	Post-closure contact	****		<u>NA</u>	
A-2b	Post-closure security			NA	
A-2c	Inspection plan			<u>NA</u>	
A-2d	Monitoring plan		-	<u>NA</u>	
A-2e	Maintenance plan			<u>NA</u>	· · · · · · · · · · · · · · · · · · ·
A-2f	Land treatment	-		<u>NA</u>	-
A-2g	Notice to local land authority			<u>NA</u>	
A-2h	Notice in deed			<u>NA</u>	
A-2i	Certification of post-closure			<u>NA</u>	
A-3	Closure cost estimate	<u> Y</u>	N		Pages 8-10, See comment A-3
A-4	Financial assurance mechanism for closure			NA	(Not reviewed)

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments
A-4a	Closure trust fund			NA	
A-4b	Surety bond guaranteeing payment into a closure fund			NA	
A-4c	Closure letter of credit	-	-	NA	
A-4d	Closure insurance			NA	
A-4e	Financial test and corporate guarantee for closure			NA	
A-4f	Use of multiple financial mechanisms	-		NA_	
A-4g	Use of financial mechanism for multiple facilities			NA	
A-5	Post-closure cost estimates			NA_	
A-6	Financial assurance mechanism for post-closure care			NA	
A-6b	Surety bond guaranteeing pay- ment into a post-closure trust fund	***************************************		NA	
A-6c	Post-closure letter of credit			NA	
A-6d	Post-closure insurance		-	<u>NA</u>	
A-6e	Financial test and corporate guarantee for post-closure care			NA	
A-6f	Use of multiple financial mechanisms	*****		<u>NA</u>	
A-6g	Use of a financial mechanism for multiple facilities			<u>NA</u>	

		Provided (Y/N)	Adequate (Y/N)	Not Applicable	Comments
A-7	Liability requirements			<u>NA</u>	(Not reviewed)
A-7a	Coverage for sudden acci- dental occurrences		***************************************	NA	
A-7a(1)	Endorsement or certification			NA	
A-7a(2)	Financial test for liability			NA	
A-7a(3)	Use of multiple insurance mechanisms			NA	
A-7b	Coverage for nonsudden acci- denal occurrences			NA	
A-7b(1)	Endorsement or certification			NA	
A-7b(2)	Financial test for liability coverage			NA	
A-7b(3)	Use of multiple insurance mechanisms			NA	
A-7c	Request for variance			<u>NA</u>	
A-8a	Use of state-required mechanisms		****	<u>NA</u>	1
A-8b	State assumption of responsibilit	у		<u>NA</u>	